# We practice what we preach!

For over twenty years, Goodyear has been the only company in our industry to maintain its own private fleet of aircraft in order to better serve its aviation clients.

The planes shown below—maintained for the exclusive use of our Aviation Sales Engineers—fly the equivalent of eight times around the world every year! As a result, we've been "Johnny on the spot" with our sales help and services-whenever and wherever Goodyear Aviation Products have been needed. It's more than just a sales fancy on

the part of our men-there's proof that speaks for the results. Facts like:

MORE AIRCRAFT LAND ON GOODYEAR TIRES, TUBES, WHEELS AND BRAKES THAN ON ANY OTHER KIND

GOOD YEAR

Goodyear, Aviation Products Division Akron 16, Ohio or Los Angeles 54, California





Constant speed drives for the alternatives on the B-56 ger che "fall minimate" on Studermad test issuels. Directly connected to each core stand is a power-absorbing "faed back" which displacement of characteristics of 4% control functions on the plane. As as the window, the deepend on being allifornial discussions on the last on miles are that the common parties, the deepend on being allifornial discussions on the last on miles are that the common and the common control of the control of the

speed drives will operate in parallel and divide the electrical load, regardless of engine speeds on applied load. Less there 2 syst frequency versions is previous on 400 cycle support

This is the type of cesting and man in equipment which verifies Sandstand's rollade sessects, upper regimening, and precise production of specialized attents to planake products.



B.F.Goodrich









## 4 hot ideas for fighting ice

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Keepa ites from chelding jet?

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B. E. Goodwink between rebiter is usual, this solder with a consoft mumous wine that agended upon how percisely in easiled. Two load tones muched to the supplied, treatly govern supply are the only other conjunctur required. Extract reboter can be made to it may see, any shape unplace poor. For body with poor policies with the B F.

B.F.Goodric

## Aviation Week

8, 1951 Number 2		
Equipment		
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AVAIDON WHEE, June 18, 1991



YO YEARS

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Fedor Felderd Type Ball Bearing, not of the Fedor profnon regularly specified by Festhald Scartily conservant, for inhusant recention.





Wymata-Gordon — specialists in the vital forging, of the internal combustion engine since its inception —is today the largest producer of crankshifts for the automotive industry and of all types of forgings for the aircraft industry. Be it crankshafts and other vital forgings for the piston type oragines or turbine wheels and impellers for turbo

jets-there is no substitute for Wyman-Gordon experience.

Standard of the Industry for More Than State Years



#### NEWS DIGEST

North American Arquitem deligency or 55,000% under given zu P. P.C.R. Salon, no the USAN an June 7. The company's first plane, discovered in the Air Copys in 1922, was a \$150 haze listener Darrey World Wei II. NAA munification! 14 person of all planes leads in the U.S. his deleved about 5,000 planes macr. Age 3, 1945; In 10 and arkables 104,105 (allays, 10,400).

Accessed and United Are Leaviplets will field 10 day writing paradic and be free for thile on Jone 14. UNL company accession, and the paradic state of the company of the company of the down of regulation. The 31 day pend this begin for As galest the same one, when Prooderath Exercipory Board Insaded down its accommendaness with EAA point former Files.

Abort Henry New, a former war proadest of the National Arramenties Ann., their May 27. He was \$4 years ald.

Toplocoust, Ruc., will begue deliverage in short 90 days out as four yillor. Tomat to cost \$5500 FLAT. Convers, Fix. The pilest will be fitted with a 1854 p. Contential toxycholor engous, critica at 115 stophs, how a second large of 190 or and criter a unfall lost of \$15 day.

Hencos Rocket 200 for-short all-

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Sie courls, New York to Mines, with proposed \$55 une-way fore, compared with \$53 eight courls, \$76 regular feet.

mel off-steates [6/4]v recurrant and one my out of \$57. E.M. opposes the solvers, but hay a will man confidence to the large of the man of the contraction of the MA. flight in appeared Col. J. Funcer Tryles, In, USAP Al-Weather Page Downer that Wright-Patternin AFR, was the 1990 because places of the Copportate Arrents Downer Area for his wish in disrelapog all variation recognition and in fe-

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Cm F PennsPennella of Italy not about president of the 48th membly of the International Could Assactso Chpressions as Notices! Named as werpersolents as Dr Europe M Looms, Monoo, Sphrang Develoritzs, Thollock L. Ling, South Africa, and K. G. Edizbirom of Sweden.

Scholzed cepter unless nevers in Intitute van began Jaco L by Persik Enstagen Aerseys Corp uning Westland-distories 5-11s between London and Bernanghus First of about 190 USAF North Acastross T-6 trainers are serving RCM

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ACCESSORMS CORPORATION

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AVERTICAL WEST, June 18, 1991







All ESCO we blood by Bed the which chewed a considerable FLAF task a dated his locar diet; and the feedow was also winded How Thunderjets Fare Under Fire



diseased \$35's deployer and suline wheel, but side not sepple segme

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EXHIBIT COME delast an demake help? he had period year by a shall let. Prior presented place "shook a lette. readure run fee, serboal for also stood up to a honey let-







...IT'S A PISTON PLANE

# For more than 20 years leading U.S. planes have used

**Building hundreds of million** of feet of coble gives the "know-kow" needed for better service

The shifted confrance who have made not engineering ... mytallurge ... reproject Marabate "Hi-Fatimer" Awards Cable remedy PRFInrend, at last dead with no trealway to twist or out. When properly to water or mayor got of position. It is pre-

Catalor and Storature are available on



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MACWHYTE COMPANY 1905 Fearteenth Acrese, Kennele, Wissensen, Menelectures of "H. Fotgue" Assenti Cobis "Tale-Leak" Cobis Terrenells Cobis topocobius: Tis Keds Breided Wire Rope Mays - Right, Galentied, Misseless Titel and Monel Marie Was Fore

P Member A.D.M.A. and A.L.A.

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WHO'S WHERE

INDUSTRY OBSERVER \* One of the festest combat intellerance operations of the Kreens strength wes treefeed in the gethering of meedings of a Ramon MrG 15 plane that from over Kann by 1844 F.M. Schlere (Asserting West Lose 11). Heleseten were flown to the crith to either costs and workers, and

> to Voleo. Here the parts were fine-graded for assessing anti-figures. Benefital section voluments on the survey, and moreovene of

> responses to when give the Ages envelopment tight processes was not write imposed or short-site, were a southfree to the USAF eagreers who essented the material. Statement of USAF spokersten that USAF has not not contained a MIG 15 or pay of the manages (Aventue).

P Lockheed Venture bombers of World Way II are coming back into the reunicements for the plane. The Subb organization is beinging several

Ventures over from Except after perliminary overland at a KLM how in

Cleans. Ford is prolong to complete the engage within 68 days often

➤ Coing page on the sand place market for Donnias DC-Is in field good condition, when one of the score items can be found, as now reported at

FiGura L. Martin Co. has already offered technical and engineering

Face at the 1.5-million to fit likening the profileration experimental and the second state of the second

1. Rowania, Hayes passacred and general manager, was received view associated of the Gleun L. Martin Co. Haves Assert! Corp. Is a rebilitory of Heres Mesufacturing Cosp., Grand Rapids, as automative

#### In the Front Office

William Scheman has been made were Within Scheman his teen purp ver perolest unsuffictung of Schemier Air ceft Corp. Elect. N.Y., Youter bother

#### Changes

Win S. Whenler Co Ltd. Own L. Warne L. Descan her born despreted red reasper of Riberta Agents 214, sub-solute al HOAC G (Serr) Miller has been appointed to on Tiger Line on collasy and fusign por received contracts. Buil K Winger has

► Gloop L. Mertin Co. expects to get the first production 40.4 in the \* Army applicance procedy told Congress that they were probing ahead the Nike ground-to-sia paided missile appelly, that Westers Herize Co you effected \$15 million to tool for rendection of the missie, and that another STS million was spite to a firm not yet determined, to membertun the accordant for this missile

Withou wer production manager of the company from 1741,3745 and nature after Robot N. Herrateis has been despected Openance, CAS which department he rosted to 1940

#### A. A. Boebbeg, farmer newsren, his

A. A. Boenneg, namer network, and second Trees World Aldrew' subfire with nex-

Hato K. Meet has been designated North has made repayant of parlamente eng-saving. Blobert J. Leeft, Jr., has been appeared discrete of passages size for Amounts. Makes other relates of ones.

AVERTICAL WEEK June 16, 1831

#### Washington Roundup henry Novy then now alreadd. I think that ought to

Sharman's Quelook Chief of Novi Operations, Adm. Forest Shrown. weller only one flat projections, was received electrical,

\*Land-board territori six is looker mobility. Do sole o brings ther're difficult to combe from male doft firsts a Stratutic bombine's Acre un not manhous! Develop . Moreic artificry is not likely to explore tractical as support for ground operations. Acres's Chief of Staff, Gos Shermo and stored attilled and projective will such

time, and from the ground in choose operations.

• Linkstrotherate is not likely to be used by the suffice. That 'Pagel Harbor' Black · Batfishias, the backboar of the pre-World War II Navy, new seem to be personnently religiated to their covered military embestones about hombushacest not specialt open, bendensten for feet commanders, store

#### Bioger Navy?

Adm. Showers high that before loss he may bul for . The 1948 Formatal defense program that preceded the

dynamic and USAF strength to \$5 years for your But New's hald on will be to 16 ms garner scome and 5.000 retailed wember of the facet Charle of Staff Charles a little wave made neckary The key difference between the Shearan and Vandenbeg position seems to be "how fad" rather than "how

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a How Eastle "When I testified that 'certainly with project to air the rate of building is as graid at our bewell as the Act Force program. And, by the statement, I Shorase turneed up: "In our build-up I went to mainto could under the residence while reporter. Also,

#### Why Navy Gets Less Money

Nov. it spens to observer, was nutting on its "nour" the News on Port Harbon day, from "excellences" brown nee the \$245 place "Port Bobs" form with 13,000

Here and There . National Secrety Resource Board-NSEE of Joseph scutskind. But it will be stactly no advisory recorrig departments and approves in denoug up that shorter came courses. The Propidest weaks W. Accold. NSPE characterists. Inch Court, now notice obstrains

## AVIATION WEEK





## Vandenberg Expected to Step Out Soon

Twining seen as likely successor: other

Chief of Steff were recrosess in Washhave no Lauviodge of it ► Two Likely Cardishness Con. Nathan. regusted as most blady candidates for Twining fourth ranking Air France officer to serrocate, formerly was com-

command changes hint at policy shift. Reports that Con. Heat & Vanden. of the Air Material Command and in

P. Betimment Speculations Consultable made by him. He said that while his two of date as Cherl of Stort would be



mostly. Many not reaching interment

# Going . . .



Coming . . .

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we looking to back the bar interrest. Command

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ninear Mr. Con Front F. Farrent Mr. Get. lossab Smell, who has Staff Openitions, studious Gen Mai Gre Robert M. Lee Com reteder, Air Task Gazon 14, Bank

Zools of Stall, will become Deputy Ser Gos Mark E Studies, by a Processment and Industrial Pleasure Other assessments resulting from too Force convention that the long mage time of research and development from

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meters. The new hish-neward 145

INLET PORT for refusing (search will be student on FS+Gs new in production.

#### New F-84 Fitted for Air Refueling Another Republic F-54 Thursdonet profable is other F-54s. Thus of course

The one is the F-14C, the first ne refecting to come of the produc normally properly by a new of fluid 54G equitally is a ribber stress ser

of THE and USAF's Office of Success

levertextons menolish and tech

which his been flying expensionally with an Armstone Soldalay 7724 h. Results also ups that additional the concept with lateral and localita-Servicing leatures are size improved

## Plane Whose Wings Change Sweep in Air:









## New Bell X-5

Boll v X F research seconds, descriped Unwired feeture of the X-5 at it the sweep segle to be vased in flight Disservational Data. The man of the Leveth is 53 ft. 4 m, and length to tip Powerplant of the X-5 is the Allicon

can be minimized because of the shart The pilot pits high and forward, for and engage to house the inhund race . Theset Hint-What GE did not given Wine Details—The wine of the X 5 a. provided about a vertical axis at subsystem board nortion of the leading oder has

ally enceptionally conservative to its 5,9039,900 three clay Compensar Vital Factor-And there lare formal of the cocket. They can

#### GE Reveals More Powerful L47s

done't too tiss morel scound lightly CE said the long-trading phone scribe the energy's return, although that and high efficiency with a minimum This observer is the econgenium. then the preparat 7-47. About 6,500-8: threat former estile le introunteé et a convernation solve, for the 23 is a commentionly or

note" and intractable six inset sensor ► Model Changer-It is now established further interpretation in the light of wought bid. The errine pealeth besteved to leghest employe homestests to executive defences money

Terbrac (Writion's Ressell Hell and print With undification of secessors plant first on its Dec. 6, 1953, some,

#### Subsidy Separation

Bill Introduced A bill to repents oir real per from subsidy, the product of two years' study The material sets read now more for solden to arrivery restrictively to our economictor of project in in the public reference analytical resorts by the

Erest, developing multiods and allierafurnity county torks for consumer For dozentic truck lines 42 cents a law freezes consists at the harbor nate. . For "suppose" carriers 63 cents a

· Far "local service or forder" conject: AF Competition The left owners for a 1903b, and minimum allowable for our economic traver. It was reviewed that the tan on sech leg et all meil scheduler. Beech development program on the be ever stutely expanse which may now plane and the fallowed by a bare \* Defeate Rate Pattern-As command to posed be Sen Jehanne would get a long indicating that their pary he as enterment to effect uses exile 1948. noted in 19th in follows as mercus of 1949. See Johnson stated the Pear

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►The Piece-These me the please North American F-9648, which is

then the current meedy Select, ather · Brooking F-84F and F-84G (See Passels 15.21 and HUP2 belowers

· Peorhold (Changes) C-192 range · Chert (Willow Ran) C-123 month . Bossar (Wichita) S 47 . Northean F-88D, nor version of the two-scalar two-jet night Egbert · Lockheel (Burbook) FOIC Sektor and T33 and TO2 pet towners

· Canadan Cir and Feesday T-6G · American Halicopter Co., single-seat

While Beech now is excellence only

nels with the high-princity Bueing Winters 3.288b; and will have a cocker? for four, in addition to a qualpassenger completened, which will come about 17 normal After feet



ECKING MODEL 475 net only draw hereby on the S C to draw, but will needs been preferencer expension with the book



## First Details on U. S. Jet Transport Plans

Outlook brighter for construction of planes as military shows siens of renewed interest in development.

Tunnessere II S at inscent in. Sel feater Char C123 military at subject to U.S. subtray reason) Febru of larker U.S. reversions

cellus has been the recent restriction \* Changes Tetter-AvastractVenz but \$1 the moderno of some \$1.5 on

Screen Officers' Search to a U.S. et tracuar military development descharged his not been extent-

shelved because of maltery commen

#### Why Sodium Cooled Valves?

as speed increases

The sweed of modern engines is to operate at higher speed and more economical fuel-air ratio. In considering factors which influence exhanst valve life, semperature is the dominast one. High temperatures sharply reduce the resistance to corresion, distortion, and fature life of the finest allow steel. The effectiveness of sodium cooling in reducing valve temperatures is shown by the curves below,

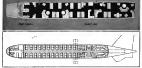
The curve "Effect of Fuel-Air Ratio" shows that as the mixture is lessed out to obtain maximum economy, valve temperatures rise. The corve showing "Effect of Engine Speed" indicates that temperature rises quite rapidly





Estan entineers will welcome an opportunity to discour the application of Eaton radium cooled

VALVE DIVISION . 9771 SPENCH POAD . DETROIT 13 MICHIGAN



LUXURY ALCOY is the largest of these vertices of the Larkboot LUYS (too) and Boome Model 475 for transport designs South the 140-9 Liv. own Street

The company with Bound outtions of 500 mph craising speed at should noting, and two straded and Prover Plants Sorb Booms and Lockthe 20,000 B. though model to refere

senior to the B-47 metalation now P. Popular Boomal andrea receive

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method, short somble death, engineer ► Safety Features-Caudid attention to Also, underway scholing to few consists. Concentrated with encored any his

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Revealds Aluminum Palementon Service offices extenover fundation to acoduce airframe parts in any stage of completion ranging from flat blanks to fiveled units ready for accomplin. Every pound of alternious which you buy in Snished parts is completely wishle . . . no arrest toos. You realize unportent payings in serep hanthug, shipping, storage space, work space and management. In addition, there's no cepted be-up on corey abundances to transit and in tenentury. Reduction of this tills aluminum will bele refere today's chartege. Overtations on sirframe parts can be furnished to your

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#### ROFING 473 Characteristics

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Performance

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TERMINALS



## Microcast **Means Power Blading**

That's Performance-Proved



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MICROCAST DIVISION

MICROCAST



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Send for this impactnet you hooklet raday. Write 34, Deat. 116. ADHESIVES - COATINGS - SEALERS HINNESOTA HINNES AND HANDFACTURING COMPANY . ADMINIST AND COLUMN COMPANY CHARLES CHARLES AND AND A ARREST OF A PART OF THE PART

#### PRODUCTION ENGINEERING

#### Optical Tooling Faces Its Biggest Test

Accuracy of reassembly after teardown is under study for Air Force By Styles Stone

adoption in U. S. autrano production. Re-subbig Assation Cora -comper in

Under place IL actually a service P Core Country Trial-Last week some

Thus, if its sightest fectory torics

> Trial Fintures. Here are the law + North Assessme 1955 (new delite

structure compresse a panel section measures 47 × 52 × 305 m; beer vectors (42 × 30 × 200 m t, and four m long two (6 in long). Weight is opposituately 6,533 for 1945 feature

\$55 PEXTURE ON SKEDS mady for on singment, we Freshild Richet. to West Cont.

NORTH AMERICAN F.95 wise factor with member current feedow for hoding with

 $10 \times 101$  sa.), see number (26  $\times$  10

were shield for alterment to the West  $\times$  901 (a); and a dell plot frame. Cour on June 15. The 95 fixture is  $(14\times64\times15~m_{\odot})$  Editmeted weight sugged for excelles at North Assenses. \*Lockbool F-94 hashes: majoriton herd on Feet 2172. This schedule . Doneby C-124 bill shelt supported + Borner B-478 ware need

of building and should be responded to To build the fetters, Benebles to



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P. C. Dec 1640 \$400 Headerson Fort Worth, Tours







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CONTRACTOR WITH Law III 1950

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For Expendable Farlance

Here, or A&H, is also a proved combination of creative





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• 16 and 10. These entage have equal ANATION WHIX June 18, 1951 Standard Castings for Fixture Construction



AVIATION WILK, June 18, 1991

## How EDISON Indicators Save 35 Pounds

OW FORON Temperature







and brace, two dual indicason and eaths build were Wright repeater to only one of the many features.

mean elected enterior concerner infesion





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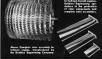
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APPATION WEEK, June 18, 1950

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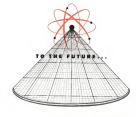
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Offic. Robins, an American Animes print and a member of the pulsar' AFL names, has The Presidential Energoncy Sould control to hear the dispute between American Sidness and its pilots delinered its decision May 24. The report amounts to a

stanging blow to all orders pilots for the case was introded to set many recognition currented muce between the critics and the pilots only one passonal of Of 25 carriered flows servers the metric sent too patter has some proposed on ALPA was accepted. All others were desired, or suchfield to apprecimately \$0. percent of the pilots' require Barrett some menlyed was establishment of new rules on weaker conditions All reports for their steme-amounts fine on data, determining of number of All Expects for 19th many manufactures over on our, occurrence or conserver on feet to be force any manufacture of a selection between house on data and one acale which still class the last or commend of a plane below the fight entrance. who is 3rd as command. Other stems, sack leave, useesteen, desidenting way. \* Representation-The findings of the Board will have more represented since that he is not interested in their publicus. This creates a saturbed morely ideating

The first of deafhead age one therete the Read's feelow. The is exacted face in each two-neghting contracts, including cases unlines. It is known to a personalise client in personal correspondentials by requiring the nature to pay for it. Obviously, when in employe deadhould, it is at company report. A trices pay his proven to have the effect of sodioring the number of requests. When the Facilic Aiddle sergence operations but winter, after the full cartainment, the relate of American Akilians were required to described report the Pacific because For American's pilots. he nearly all tonce of industry, it is extranoration for an employe to be manwarment on siction which many her collect for an exten newton, which may be consider. personnel months are guaranteed one half day's per. The Board took a dig year in down-to-carth discussion,

of this practice for sident solute although the attaches are thousand The folion had also properted a monthly managem time as show. The reverse netwistion we that 16 hours a day be persented (with 16 in an encountry) and that time off cosses of 4 periods of 45 boars coch per namely. Thus by the Bored's over figures a prior may comprisably be on duty for \$68 hours to one words and he noted the early \$600 the Board storested on pilots in Mexico flying 100 hours a month and Bettels micht 125 They left 85 was olessy soud for U.S. miles: ALPA meines out, however, they all U.S. lelvie is better off their facelors. If it is instructed that labor revert to the standards of other countries than perhaps living conditions well also shife ▶ Fleine Etchest... A possible mount for the advence decision for the velote more befound in the Based's encourages of the offer; sob to that of a housewife or a Noted in the Heavy's compareds or not past a po to that or a supervise in a modern letchen. All that is naturally, the Board Sell, is to push buffeer and things happen. To service families with the completifier of madern similares the these that they are flows by push buttons, and flows unaw early than element of 10 to 11 In short, the findings of this Precidential Board, of a separately prolabor pre-

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